
Basic Rate Interface

BRI messages indicate status and error conditions with ISDN Basic Rate Interface hardware.

BRI0100 to 0399 are status messages turned on by the SETM MISP {loop#} MNT command in LD 48. Use RSET MISP {loop#} MNT to stop printing these messages.

BRI messages

BRI0100 tn x y MISP sent line card update message. The values for x and y are 6 digit HEX numbers with each digit indicating the status of a DSL. The DSLs are identified as follows:

x = 00321

y=007654

The possible status conditions are:

0 = No error

1 = Invalid DSL address

2 = Forced disconnect has timed out

3 = Invalid state change

4 = MISP application failed to complete layer 1 connection

7 = MISP application failed to queue the request

Example: BRI100 l s c 004000 000000, where 4 indicates that the application failed to complete layer 1 connection on DSL 3.

BRI0101 tn w x y z MISP sent line card B-channel update message. The B-channel status consists of four words (w, x, y and z). The digits in these words indicate the B1 and B2 channel status for each DSL as follows:

w x y z = 001100 003322 005544 007766 (B2B1 for each DSL)

For example: the first “1” is B2 channel on DSL 1, the second “1” is B1 channel on DSL 1.

The possible status conditions are:

0 = No error

1 = Invalid DSL address

2 = Forced disconnect has timed out

3 = Invalid state change

4 = MISP application failed to complete layer 1 connection

7 = MISP application failed to queue the request

D = invalid DSL state

Example: BRI100 l s c 004000 000000 000000 000000, where 4 indicates that the application failed to complete layer 1 connection on B-channel 2 of DSL 1.

BRI0102 tn x MISP sent DSL update message. This message consists of one word (x) that indicates the DSL status as follows:

0 = No error

1 = Invalid DSL address

2 = Forced disconnect has timed out

3 = Invalid state change

4 = MISP application failed to complete layer 1 connection

7 = MISP application failed to queue the request

Example: BRI100 l s c d 000003, where 3 indicates and invalid state change on DSL l s c d.

BRI0103 tn x MISP sent DSL B-channel update message. The last digit of x indicates the B1 status, the second last digit of x indicates the B2 status. The possible status conditions are:

0 = No error

1 = Invalid DSL address

2 = Forced disconnect has timed out

3 = Invalid state change

4 = MISP application failed to complete layer 1 connection

7 = MISP application failed to queue the request

Example: BRI100 I s c d 000030, where 3 indicates and invalid state change on B-channel 2 of DSL I s c d.

BRI0104 tn x y MISP sent DSL status message. The values x and y indicate the new DSL state and the reason for the change.

New DSL states (x):

0 = Unequipped

1 = Disabled

2 = Maintenance busy

3 = Reserved for future use

4 = Enabled, but network (layer 2) is in release state

5 = Enabled and network (layer 2) is established

6 = Busy

Possible reasons for change of state (y):

1 = The first network (layer 2) link has been established

2 = The last network (layer 2) link has been released

3 = A DSL overload counters has been reached

4 = Excessive layer 1 errors on a DSL have been detected

BRI0105 tn x y MISP sent DSL B-channel status message. The values x and y indicate the new DSL state and the reason for the change.

New DSL states (x):

0 = Unequipped

1 = Disabled

2 = Maintenance busy

3 = Reserved for future use

4 = Enabled, but network (layer 2) is in release state

5 = Enabled and network (layer 2) is established

6 = Busy

Possible reasons for change of state (y):

1 = The first network (layer 2) link has been established

2 = The last network (layer 2) link has been released

3 = A DSL overload counters has been reached

4 = Excessive layer 1 errors on a DSL have been detected

BRI0107 tn x x x MISP sent line card audit message. The output data includes 8 fields (x x ... x) providing the call reference of B-channels on each DSL (0-7). Each field is formatted as 00B2B1, where B2 or B1 call reference status can be:

00 = No error

01 = Missing MISP call reference

02 = Missing M1 CPU call reference

03 = M1 CPU/MISP have different call reference

BRI0109 tn x y MISP sent line card status audit message. The values for x and y are 6 digit HEX numbers with each digit indicating the status of a DSL. The DSLs are identified as follows:

x = 003210

y = 007654

The possible status conditions are:

0 = No error

1 = DSL TN invalid (.me_bad_dsl)

2 = Force disconnect time-out (.me_forcedisc_to)

3 = Bad state change (.me_bad_stt_chg)

4 = Open layer 1 failure (.me_open_l1_fail)

7 = Could not queue the request (.me_que_req_fail)

BRI0110 tn w x y z t MISP received line card B-channel status audit message. The B-channel status consists of four words (w, x, y and z). The digits in these words indicate the B1 and B2 channel status for each DSL as follows:

w x y z = 001100 003322 005544 007766 (B2B1 for each DSL)

For example: the first "1" is B2 channel on DSL 1, the second "1" is B1 channel on DSL 1.

The possible status conditions are:

0 = No error

1 = invalid DSL TN (.me_bad_dsl)

2 = Force disconnect time-out (.me_forcedisc_to)

3 = Bad state change (.me_bad_stt_chg)

4 = Open layer 1 failure (.me_open_l1_fail)

7 = Could not queue the request (.me_que_req_fail)

BRI0113 tn x MISP sent TEI check message. The value for x can be:

0 = TN cannot be found (bad_tn)

1 = DSL is in wrong state (bad_dsl)

2 = Cannot send message to TE (no_misp_resource)

BRI0114 tn x MISP sent TEI restore message. The value for x can be:

0 = TN cannot be found (bad_tn)

1 = DSL is in wrong state (bad_dsl)

2 = Cannot send message to TE (no_misp_resource)

BRI0115 tn x MISP sent TEI remove message. Where x is the TEI that is removed.

BRI0200 tn x Line card self test response. The response (x) can be:

0 = Passed self-test

1 = Line card microcontroller's internal RAM failure

2 = Line card microcontroller's external RAM failure

3 = Line card microcontroller's EPROM failure

4 = Network timeslot controller failure

5 = PAD EPROM failure

6 = Microwire controller failure

7 = Reserved for future use

8 = DSL 0 transceiver failure

9 = DSL 1 transceiver failure

A = DSL 2 transceiver failure

B = DSL 3 transceiver failure

C = DSL 4 transceiver failure

D = DSL 5 transceiver failure

E = DSL 6 transceiver failure

F = DSL 7 transceiver failure

BRI0201 tn x DSL reports layer 1 status. The status (x) is defined as follows.

For SILCs in network terminator (NT) mode, the possible status conditions can be:

0 = S/T transceiver failure

1 = Physical (layer 1) is activated successfully

2 = Physical (layer 1) is deactivated successfully

3 = Physical (layer 1) is losing synchronization

4 = Physical (layer 1) is in the process of being established

5 = Physical (layer 1) failed to get established

For SILCs in terminal equipment (TE) mode, the possible status conditions can be:

0 = S/T interface transceiver failure

1 = Physical (layer 1) is activated successfully

2 = Deactivation was requested from far end

3 = Physical (layer 1) is losing synchronization

4 = Physical (layer 1) is in the process of being activated

5 = Physical (layer 1) failed to get established

For UILCs in terminal equipment (TE) mode, the possible status conditions can be:

0 = U interface transceiver failure

1 = Physical (layer 1) is activated successfully

2 = Deactivation was requested from far-end

3 = Physical (layer 1) is losing synchronization

4 = Physical (layer 1) is in the process of being activated

5 = Physical (layer 1) failed to get established

6 = Physical (layer 1) failed to be activated

- BRI0202 tn Line card responds to audit DSL state message. Five decimal numbers are displayed following the DSL address indicating the status of the DSL. These numbers specify the mode, B1 and B2 channel status, DSL sampling, framing, and activation:
- Mode:
- 0 = Disabled
 - 1 = NT1 mode, adaptive sampling
 - 2 = NT1 mode, fixed sampling
 - 3 = TE mode
- B1:
- 0 = B-channel disabled
 - 1 = B-channel enabled
- B2:
- 0 = B-channel disabled
 - 1 = B-channel enabled
- Framing:
- 0 = Multi-framing disabled
 - 1 = Multi-framing enabled
- Activation:
- 0 = Waiting to be activated
 - 1 = Automatically activated
- BRI0204 tn Line card responds to terminal equipment query message.
- BRI0300 tn xy zz MISP sent interface data download message. Where x is the message type, y is the message ID, and zz is the error code as follows:
- 0 = No error
 - 1 = invalid DSL TN (.ae_bad_dsl)
 - 2 = Force disconnect time-out (.ae_forcedisc_to)
 - 3 = Terminal memory full (.ae_trm_mem_full)
 - 4 = DSL not disabled (.ae_dsl_not_dsbl)
 - 5 = Interface memory full (.ae_if_mem_full)

BRI0301 tn xy zz MISP sent timeslot download message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)
- 3 = Bad timeslot type (.ae_bad_ts_type)
- 4 = DSL active (.ae_dsl_active)
- 5 = Table full (.ae_table_full)
- 6 = Invalid timeslot (.ae_lscd_ts_bad)
- 7 = Backup D-channel enable failed (.ae_enbl_bd_fail)

BRI0302 tn xy zz MISP sent packet data download message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)
- 3 = Bad timeslot type (.ae_bad_ts_type)
- 4 = DSL active (.ae_dsl_active)
- 5 = Table full (.ae_table_full)
- 6 = Invalid timeslot (.ae_lscd_ts_bad)
- 7 = Bd-channel enable failed (.ae_enbl_bd_fail)

BRI0303 tn xy zz MISP sent protocol data download message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)
- 3 = Bad protocol number (.ae__bad_prot_num)
- 4 = Protocol memory full (.ae_prot_mem_ful)
- 5 = Invalid protocol (.ae_prot_bad)

BRI0304 tn xy zz MISP sent Terminal Service Profile (TSP) data download message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = Invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)
- 3 = Bad TSP number (.ae_tsp_mem_ful)
- 4 = TSP memory full (.ae_dn_mem_ful)
- 5 = Invalid TSP (.ae_tsp_bad)

BRI0305 tn xy zz MISP sent DSL traffic request message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = Invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)

BRI0306 tn xy zz MISP sent DSL layer 2 traffic request message. Where x is the message type, y is the message ID, and zz is the error code as follows:

- 0 = No error
- 1 = Invalid DSL TN (.ae_bad_dsl)
- 2 = Force disconnect time-out (.ae_forcedisc_to)

BRI0312 Downloading Layer 3 tables to the MISP time-out. Default tables in MISP will be used.

BRI0313 MISP did not respond to Layer 3 table download message. Default tables in MISP will be used.

BRI0314 Downloading Layer 3 tables to the MISP failed. Default tables in MISP will be used.

BRI0315 The BRI line card or BRSC does not have an MISP assigned to it.

- Action:**
1. Load LD 27.
 2. CHG the configuration for the card.
 3. At the MISP prompt, enter a configured MISP loop number.

BRI0316 The interface parameters pertaining to the specified BRI line card are being downloaded. Another independent task has requested to download interface parameters of the same line card. Since only one task can be active at a given time, the second request is refused.

Action: Wait 30 seconds. If the entire line card is behaving properly, then the second request was redundant. However, if you notice some oddities occurring on certain DSLs, load LD 32 and use the DISU command to disable those DSLs, then use the ENLU command to enable them. Any discrepancies should be eliminated.

BRI0317 The command cannot be performed because the superloop network card is in disabled state.

Action: 1. Load LD 32.
2. Execute the command to enable the XNET, ENLL {XNET LOOP NUMBER}.
3. Retry the command.

BRI0318 The command cannot be performed because the controller card is in disabled state.

Action: 1. Load LD 32.
2. Execute the command to enable the XPEC, ENXP {XPEC NUMBER}.
3. Retry the command.

BRI0319 Failed to receive a response message from the BRSC card.

Action: 1. Check that the BRSC card is present in shelf.
2. If present, remove the card, wait one second, then insert it into the same slot.
3. If problem remains, turn on the message monitor in LD 48.

BRI0320 Message intended for a served card (i.e., BRSCs) via the MISP card. The MISP rejected the message. The reason for rejecting it is not displayed unless the message monitor is turned on in LD 48.

BRI0321 During the fast interface download to the MISP application, the application rejected the data for one of the interfaces belonging to the stated card TN. The reason for failure is not displayed unless the message monitor is turned on in LD 48.

BRI0322 During the fast interface download to the MISP application, the application rejected the data for one of the TSPs belonging to the stated card tn. The reason for failure is not displayed unless the message monitor is turned on in LD 48.

BRI0323 Whenever the MISP BRIL or the BRSC application is enabled, the interface configuration is sent to the ISDN BRI line card. This message indicates that both the stated DSL TN and the consecutive ones configuration failed to get sent. The

interface chip on ISDN BRI line card will retain its original configuration. If there were no configuration, the interface will be in UNEQ state (in hardware, i.e., ISDN BRI line card).

Action: 1. Check state of the superloop controller card.

2. Check state of the controller card.

3. Use LD 32 to first disable and then re-enable the two interfaces encountered the failure. This action causes the configuration data to be downloaded. If this fails, turned on the SSD message monitor in LD 48.

BRI0324 Cannot perform the requested task because the BRSC basecode is inoperational.

Action: Enable the BRSC basecode with the following:

1. Load LD 32.

2. Issue the command ENLC BASE L S C

3. The BRSC basecode should get enabled unless a problem is encountered.

BRI0325 After all the interface parameters (pertaining to a single BRI line card) have been downloaded, the MISP card failed to acknowledge some or all of the data.

Action: Wait 30 seconds. If the entire line card is behaving properly, then the second request was redundant. However, if you notice some oddities occurring on certain DSLs, load LD 32 and use the DISU command to disable those DSLs, then use the ENLU command to enable them. Any discrepancies should be eliminated.

BRI0326 Unable to send a message to the MISP card. A TN might follow the message number. It either indicates the MISP loop number or the line card for which the message was related to.

Action: Make sure that the MISP basecode and/or the related application is operational. If so, there might be unable to handle the large flow of messages at this time. Try the command later.

BRI0327 Unable to send a message to the BRSC card. A TN might follow the message number. It either indicates the BRSC card TN or the BRI line card for which the message was related to.

Action: Make sure that the superloop network card and controller card are operational. Try the command later.

BRI0328 The Meridian 1 did not receive a message response from the MISP. A message was sent (typically to the bootcode/basecode on the MISP, but the response either was not sent by MISP or received by software.

- Action:** 1. Verify that the MISP/BRSC card is present in the shelf.
2. Verify that MISP/BRSC is not malfunctioning.
3. Retry the portion of the command that failed.

BRI0329 The Meridian 1 was not able to build an interface/TSP message during the fast interface downloading process.

- Action:** 1. The application could be in disabled/transient state.
2. The pool of message buffers is empty.
3. Retry the portion of the command that failed.

BRI0330 General information message. The relevant information follows the error mnemonic.

BRI0331 The BRSC base or BRI application code will be downloaded to the card(s) as soon as there is no program loaded.

- Action:** Quit the program by entering END if one is loaded.

BRI0332 The Enable BRSC base or BRI application task is suspended. Task will resume when software downloading is done.

- Action:** If a program is loaded, quit the program by entering END to start software download.

BRI0333 MISP did not respond to the D Channel Packet Switch Data (DPSD) Connection data down load message.

BRI0334 MISP responded with an indication to the D Channel Packet Switch Data (DPSD) Connection data down load message.

BRI0400 BRSC card does not exist, thus a dedicated connection cannot be established or removed.

BRI0401 Must be a BRSC card to have this type of Bd-channel connections.

BRI0402 Bd-channel dedicated connection cannot be established because there is no available path between the MISP and the ISDN PRI loops.

BRI0404 Cannot download timeslot information to BRSC BRI Application.

BRI0416 Received ab M4 from the UILC card indicating that the S/T interface at NT1 is deactivated.

- Action:** Check connection to the far end.

BRI0421	dsl# OVLD xxxx The overload control for the indicated BRIT D channel is active. Any incoming new call setup request is rejected by protocol control. Where: dsl# is the BRIT DSL tn xxxx is the number of ISDN messages during the last time interval
BRI0422	The UPIE layer 3 loadware INIT Rebuild Timer has expired. The BRIE INIT rebuild process has been aborted. Transient call will not be rebuilt. Output data: MISP LOOP: x DATA: y. Where: x= MISP loop number and y= message type.
BRI0800	The MISP being enabled or disabled is not present in network shelf.
BRI0801	Dedicated connection between the MISP and the line card cannot be established.
BRI0802	Task is aborted.
BRI0803	Application is being enabled.
BRI0804	Peripheral loadware is being downloaded.
BRI0805	Error detected while downloading protocol to application; application is still being enabled.
BRI0806	Protocol download message not acknowledged; application is still being enabled.
BRI0807	Line card update message cannot be sent to the application.
BRI0808	Line card cannot be put in maintenance busy mode because message cannot be sent to the MISP.
BRI0809	Basecode application has been enabled or disabled.
BRI0810	MISP is not present in the specified shelf. Action: Make sure that you specified the correct shelf.
BRI0811	Data corruption.
BRI0812	Resources not available to process the task; try again later.
BRI0813	Another task waiting to be processed. Action: Wait at least 30 seconds and then try again.
BRI0814	Illegal command.

BRI0815	Loop is unequipped.
BRI0816	Loop is not configured as an MISP card.
BRI0817	MISP BASECODE/Application is already in enabled state. Action: If the behavior of the MISP BASECODE and/or Application is not indicative of an enabled one, please disable it and then enable it. This could be a mismatch of states between software and hardware.
BRI0818	The specified application is not configured on the MISP.
BRI0819	Peripheral loadware downloading to the MISP failed. Action: Check to see that loadware is present on the diskette and the diskette is inserted in disk drive.
BRI0820	One of the following has happened. 1. The MISP card has failed the self test, or 2. Previous Flash EPROM Test may had been interrupted. Action: Retry the command after 5 minutes. If problem persists, replace the card.
BRI0821	Application cannot be enabled or disabled because software is being downloaded.
BRI0822	Task aborted. Firmware download cannot be completed because the application is enabled.
BRI0823	Unable to send message to the MISP to enable or disable basecode application.
BRI0824	MISP cannot perform the enable/disable tasks.
BRI0825	Message cannot be sent to remove application from the MISP's EEPROM.
BRI0826	Socket IDs have not been assigned to this application. Task is aborted.
BRI0827	Message to enable or disable has timed out; task aborted.
BRI0828	MISP is disabled; task cannot be performed.
BRI0829	The application is missing from the MISP card.
BRI0830	Basecode application is in transient state. Action: Try the command again later.

BRI0831	MISP has sent an undefined response.
BRI0832	Protocols could not be downloaded to the MISP. Action: Make sure that the MISP is enabled.
BRI0833	HDLC data could not be downloaded to the MISP. The accompanying number indicates which error code returned from the message handler.
BRI0834	Hardware fault has been detected on the MISP.
BRI0835	The MISP card failed to process the "Protocol Download Request" message.
BRI0836	All applications must be disabled before disabling basecode.
BRI0837	MISP basecode disabled without disabling the application(s); will attempt to release application's resources but an INIT might be required if problems persist.
BRI0838	MISP could not be accessed.
BRI0839	MISP failed to remove requested application.
BRI0840	Enabling or disabling process took too long; process was aborted.
BRI0841	Dedicated channel to the packet handler could not be established.
BRI0842	Dedicated channel to the packet handler could not be disconnected.
BRI0843	MISP basecode application failed; will try again in 0.5 second.
BRI0844	Automatic application software is pending. Action: The download cannot be accomplished as long as LD 32 is active. Exit the program to allow download.
BRI0845	Enabling process was aborted and application firmware was not downloaded. Action: Check to see that the firmware is present on the diskette and the diskette is inserted in the disk drive. Also the MISP may be busy updating the flash EPROM.
BRI0846	Application cannot be automatically enabled. Five tries to download the application firmware failed. Action: Enable application in LD 32.
BRI0847	Application loadware has been removed from the MISP.
BRI0848	Application is not identified with a socket ID, no communication with the MISP.

BRI0849	Task aborted. Meridian 1 cannot access the application information block on the MISP.
BRI0850	DSL parameter cannot be downloaded because one or more pointers are nil. Action: Try manually enabling the DSL to force the parameter to download. If this does not work, remove the DSL and then recreate it using LD 27.
BRI0851	DSL parameter cannot be downloaded because Meridian 1 could not send
BRI0852	DSL parameter cannot be downloaded because no Call Register is available.
BRI0853	DSL parameter cannot be downloaded because the download request message was invalid.
BRI0854	DSL parameter cannot be downloaded because the specified TSP is invalid.
BRI0855	DSL parameter cannot be downloaded because the MISP did not acknowledge the download message.
BRI0856	DSL parameter cannot be downloaded because download procedure timed out.
BRI0857	DSL parameter cannot be downloaded because the MISP and/or application is disabled.
BRI0858	Line card does not exist, thus a dedicated connection cannot be established or removed.
BRI0859	Only BRI line cards can have BD-channel connections.
BRI0860	Software error.
BRI0861	MISP is disabled, could not make a dedicated connection.
BRI0862	No path available to setup a D-channel dedicated connection.
BRI0863	Cannot send a message to the MISP to update the HDLC.
BRI0864	Cannot send a message to the MISP to update the HDLC.
BRI0865	Software bug: PRI loop pointer is nil.
BRI0866	PRI loop is disabled and a dedicated connections cannot be made.
BRI0867	Dedicated connection cannot be established or removed because the loop is not
BRI0868	B-channel is busy.

BRI0869	A B-channel is not available to establish a dedicated connection.
BRI0870	Call Register is not available to establish a B-channel or BD-channel dedicated connection.
BRI0871	A dedicated connection cannot be established because there is no available path between the Extended Network Card and the ISDN PRI loops.
BRI0872	Invalid number for the specified B-channel or BD-channel type.
BRI0873	Unable to establish or remove a dedicated B-channel or BD-channel connection because the ISDN PRI loop is disabled.
BRI0874	Unable to establish or remove a dedicated B-channel or BD-channel connection because the channel is in disabled state.
BRI0875	Unable to establish or remove a dedicated B-channel or BD-channel connection because the channel is in maintenance busy state.
BRI0876	Failure to establish BD-channel. Specified channel is busy.
BRI0877	BD-channel dedicated connection cannot be established because there is no available path between the MISP and the ISDN PRI loops.
BRI0878	Cannot send a message to the MISP to update the HDLC about the BD-channel.
BRI0879	Cannot send a message to the MISP to update the timeslot mapping for the dedicated BD-channel connection.
BRI0880	Cannot establish D-channel, B-channel, or BD-channel dedicated connection because the MISP application is disabled.
BRI0881	Failure to build BD-channel because the dedicated B-channel on the PRI loop is BUSY.